

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



TFW
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ridha M. Hamza et al.

Examiner in immediately

preceding parent application: Couso, Yon Jung

Serial No.: 10/757,674

Filed: January 14, 2004

Anticipated Group Art Unit: 2625

For: OBJECT DETECTION

Confirmation No.:

Docket No.: H26483 US C1 (1100.1184102)

TRANSMITTAL SHEET

Mail Stop Amendment
Assistant Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

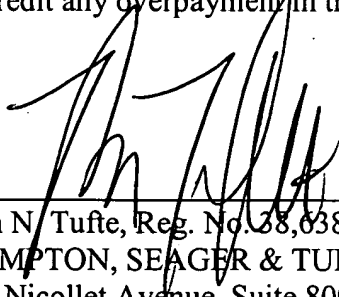
CERTIFICATE UNDER 37 C.F.R. 1.8: I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this 20th day of May, 2004.

By: _____

Brian N. Tufte

We are transmitting herewith the attached:

- ☒ [X] Information Disclosure Statement, Form PTO-1449 listing 137 with 86 non-US patent references enclosed.
- ☒ [X] Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 50-0413.



Brian N. Tufte, Reg. No. 38,638
CROMPTON, SEAGER & TUFTE, LLC
1221 Nicollet Avenue, Suite 800
Minneapolis, MN 55403-2402
Telephone: (612) 677-9050
Facsimile: (612) 359-9349



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ridha M. Hamza et al.

Examiner in immediately
preceding parent application: Couso, Yon Jung

Serial No.: 10/757,674

Filed: January 14, 2004

Anticipated Group Art Unit: 2625

For: OBJECT DETECTION

Confirmation No.:

Docket No.: H26483 US C1 (1100.1184102)

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

Mail Stop Amendment
Assistant Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. 1.8: I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 20th day of May, 2004.

By: _____

Brian N. Tufte

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F. R. §1.98(a)(2), a copy of each non-US patent document or other information listed on the enclosed Form 1449 is provided.

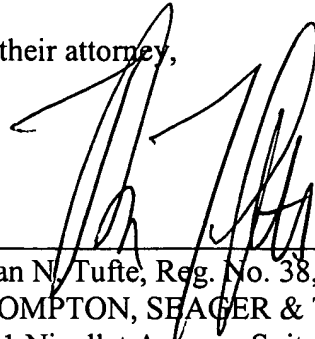
No representation is intended to be made hereby that any of the cited references establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim of the present case.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

Ridha M. Hamza et al.

By their attorney,

A handwritten signature in black ink, appearing to be "Brian N. Tufte", written over a horizontal line.

Dated: May 20, 2004

Brian N. Tufte, Reg. No. 38,638
CROMPTON, SEAGER & TUFTE, LLC
1221 Nicollet Avenue, Suite 800
Minneapolis, MN 55403-2402
Telephone: (612) 677-9050
Facsimile: (612) 359-9349



Atty. Docket No.:

H26483 C1

1100.1184102

Serial No.:

10/757,674

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

Applicant: Ridha M. Hamza et al.

Filing Date:

January 14, 2004

Group Art:

unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	
	Des. 347,442	05/31/94	Falconer	
	Des. 349,713	08/16/94	Hasegawa	
	Des. 349,714	08/16/94	Hasegawa	
	Des. 349,911	08/23/94	Shimizu et al	
	Des. 349,913	08/23/94	Morris	
	Des. 354,973	01/31/95	Hisatune et al	
	Des. 365,834	01/02/96	Dozier	
	Des. 378,095	02/18/97	Hasegawa	
	Des. 399,517	10/13/98	Hasegawa	
	4,923,066	05/08/90	Ophir et al	
	5,359,363	10/25/94	Kuban et al	
	5,402,168	03/28/95	Fouilloy	
	5,418,567	05/23/95	Boers et al	
	5,436,462	07/1995	Huli-Allen	
	5,448,320	09/05/95	Sakai et al	
	5,477,212	12/19/95	Rumpel	
	5,539,199	07/1996	Ruckh et al.	
	5,573,006	11/12/96	Shimotani et al	
	5,613,013	03/1997	Schuette	
	5,627,616	05/06/97	Sergeant et al	
	5,649,255	07/15/97	Schieltz	
	5,657,076	08/1997	Tapp	
	5,677,535	10/14/97	Stephan	
	5,691,765	11/25/97	Schieltz et al	
	5,731,832	03/1998	Ng, H.	
	5,731,832	03/24/98	Ng, H.	
	5,745,170	04/28/98	Palmer	
	5,752,100	05/12/98	Schrock	
	5,790,910	08/04/98	Haskin	
	5,793,900	08/11/98	Nourbakhsh et al	

FORM PTO-1449 Page 2 of 6 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: H26483 C1 1100.1184102		Serial No.: 10/757,674
	Applicant: Ridha M. Hamza et al.		
	Filing Date: January 14, 2004		Group Art: unknown

	5,795,306	08/19/98	Shimotani et al	
	5,801,770	09/01/98	Paff et al	
	5,818,519	10/06/98	Wren	
	5,835,218	11/1998	Harding	
	5,835,613	11/10/98	Breed et al	
	5,845,000	12/01/98	Breed et al	
	5,852,754	12/22/98	Schneider	
	5,870,135	02/09/99	Glatt et al	
	5,878,156	03/02/99	Okumura	
	5,953,055	09/1999	Huang, J., et al.	
	5,953,055	09/14/99	Huang et al	
	5,980,123	11/1999	Heifler	
	6,035,067	03/2000	Ponticos	
	6,286,349	09/2001	Muller et al.	
	6,392,754	05/2002	Pingel et al.	
	6,456,320	09/2002	Kuwano et al.	
	6,456,384	09/2002	Kulawiec et al.	
	6,496,253	12/2002	Vokhmin, Peter A.	
	6,509,967	01/2003	Pingel et al.	
	6,564,166	05/2003	Ume et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation Yes No
	EP 0468839 B1	09/06/95	EP	
	EP 0484076 B1	12/18/96	EP	
	EP 0491121 B1	02/28/96	EP	
	EP 0519379 B1	09/04/96	EP	
	EP 0529317 B1	12/18/96	EP	
	EP 0554197 B1	10/09/96	EP	

FORM PTO-1449 Page 3 of 6	Atty. Docket No.: H26483 C1 1100.1184102	Serial No.: 10/757,674
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Ridha M. Hamza et al.	
	Filing Date: January 14, 2004	Group Art:
		unknown

	EP 0575220 B1	03/04/98	EP	
	EP 0585033 B1	01/14/98	EP	
	EP 0610863 A1	08/17/94	EP	
	EP 0631430 A2	06/22/94	EP	
	EP 0632858 B1	08/12/98	EP	
	EP 0654684 A2	05/24/95	EP	
	EP 0691632 A1	01/10/96	EP	
	EP 0691632 B1	10/21/98	EP	
	EP 0747868A	12/ 1996	EP	
	EP 0772169 A2	05/07/97	EP	
	EP 0774730 A2	05/21/97	EP	
	EP 0800152 A1	10/08/97	EP	
	EP 0810791 A2	12/03/97	EP	
	EP 0833503A	04/1998	EP	
	EP 1168269 A2	05/2001	EP	Abstract
	JP 07056219	08/10/93	JP	Abstract
	JP 07104362	10/01/93	JP	Abstract
	JP 07159892	12/08/93	JP	Abstract
	JP 07175128	12/20/93	JP	Abstract
	JP 07191390	12/27/93	JP	Abstract
	JP 07222039	01/31/94	JP	Abstract
	JP 07255004	03/14/94	JP	Abstract
	JP 07281276	04/04/94	JP	Abstract
	JP 08076213	09/07/94	JP	Abstract
	JP 08140941	11/25/94	JP	Abstract
	JP 09083999	09/20/95	JP	Abstract
	JP 09193078	01/22/96	JP	Abstract
	JP 10031256	07/16/96	JP	Abstract
	JP 10042231	07/19/96	JP	Abstract
	WO 0233671	04/2002	PCT	
	WO 84/03784	09/27/84	PCT	
	WO 97/01246	01/09/97	PCT	
	WO 97/05741	02/13/97	PCT	
	WO 97/05744	02/13/97	PCT	

FORM PTO-1449 Page 4 of 6	Atty. Docket No.: H26483 C1 1100.1184102	Serial No.: 10/757,674
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Ridha M. Hamza et al.	
	Filing Date: January 14, 2004	Group Art: unknown

	WO 97/12278	04/03/97	PCT	
	WO 98/18026	04/30/098	PCT	
	WO 98/46116	10/22/98	PCT	
	WO 98/47025	10/22/98	PCT	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	Aach, T., et al., "Statistical Model-Based Change Detection in Moving Video," Signal Processing, Vol. 31, No. 2, pages 165-180, March 1993.
	Asundi et al., "Digital moiré for measurements on cylindrical objects", J. Opt. 29 (1998), pages 128-134.
	Asundi, et al., "Digital Moire applications in Automated Inspection", SPIE Vol. 2347, pages 270-275, 0-8194-1682-7/94.
	Barski, et al., "Characterization, detection and suppression of stationary grids in digital projection radiography imagery," SPIE, Vol. 3658, February 1999.
	Batouche, "A Knowledge Based System for diagnosing spinal deformations: Moire Pattern Analysis and Interpretation", 11th IAPR International Conference on Pattern Recognition, pages 591-594, The Hague, The Netherlands, August 30-September 3, 1992.
	Blanco et al., "Study of Plate Vibrations by Moire Holography", SPIE Vo. 1508, Industrial Applications of Holographic and Speckle measuring Techniques, pages 180-190, 1991.
	Bruynooghe et al., "Fast algorithms for automatic moiré fringe analysis. Application to non-contact measurements for quality control of industrial components", SPIE Vol. 2786, 0-8194-2172-3/96, pages 54-67.
	Bruynooghe, et al., "Real-time digital/optical system for quality control by moiré image processing", SPIE Vol. 3208, pages 445-454, 0277-786X/97.
	Campos et al., "Moiré Interferometry With Pseudo-Random Screens", SPIE Vol. 1983 Optics as a Key to High Technology, pages 724-725, (1993).
	Chang et al., "Analysis of CCD moiré pattern with the wavelet transform", Part of the SPIE Conference on Wavelet Applications VI, Orlando, Florida, April 1999, pages 420-428, SPIE Vol. 3723 0277-786X/99.
	Chang-Hua Hu and Yu-Wen Qin, "Digital color encoding and its application to the moire technique," Applied Optics, Vol 36, No. 16, pages 3682-3685, June 1, 1997.
	Fang, "Optical modulation and digital demodulation of an in-plane moiré carrier", Optics & Laser Technology, Vol. 23, No. 6, pages 349-352, 1991.
	Gallarda et al., "3-D Gradient and Curvature Measurement Using Local Image Information", SPIE Vol. 1194 Optics, Illumination, and Image Sensing for Machine Vision IV (1989), pages 198-208.

FORM PTO-1449 Page 5 of 6	Atty. Docket No.: H26483 C1 1100.1184102	Serial No.: 10/757,674
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Ridha M. Hamza et al.	
	Filing Date: January 14, 2004	Group Art: unknown

	Gazzero et al., "Restoration of Images Transmitted Through Coherent Fiber Bundles", SPIE Vol. 12332, Medical Imaging IV: Image Capture and Display, pages 20-25, 1990.
	Hotter, M., et al., "Image Segmentation Based on Object Oriented Mapping Parameter Estimation," Signal Processing, Vol. 15, No. 3, pp. 315-334, October 1988.
	Jianu et al., "Talbot-moire deflectometry with direct spatial reconstruction of optical phase", SPIE Vol. 3405 0277-786X/98, pages 517-521.
	Jinhong et al., "Temperature Mapping by Double Grating diffraction System with Microcomputer Image Process", SPIE Vol. 1230 International Conference on Optoelectronic Science and Engineering '90, pages 196-198.
	Krumm, et al., "Sampled-grating and crossed-grating models of moiré patterns from digital imaging", Optical Engineering, Vol. 30, No. 2, pages 195-206, February 1991.
	Kunihiko Mori, et al., "Fringe pattern analysis using hybrid image processing", Applied Optics, Vol. 29, No. 11, pages 1646-1817, April 10, 1990.
	Loske, et al., "Two-dimensional spatial correlator for lens-free image processing", Optik, 103, No. 2, pages 59-65, 1996.
	Moran et al., "Automatic digitization and analysis of moiré topograms on a personal computer for clinical use", Med. Eng. Phys., Vol. 16, pages 259-264, May 1994.
	Morimoto et al., "Strain analysis by mismatch moiré method and grid method using Fourier transform", Computational Mechanics (1990) 6, pages 1-10.
	Nakamura et al., "High Quality Image Processing Method using Moire Suppression and Edge Enhancement Filtering, pages 445-450.
	Ostermann, J., "Modelling of 3D moving objects for an analysis-synthesis coder," SPIE-SPSE: Symposium on Sensing and reconstruction of 3D objects and Scenes, Proc. SPIE 1260, pp. 240-249, Santa Clara, CA, Feb. 1990.
	Ostermann, J., "Segmentation of Image Areas Changed Due to Object Motion Considering Shadows," Multimedia Communications and Video Coding, pages 241-246, Y. Wang, Ed., New York: Plenum, 1996.
	Qifeng et al., "A New Method For Constructing Digital-Strain-Field-Images From Moire Patterns", Chinese Journal of Aeronautics, Vol. 3, No. 1, pages 16-22, February 1990.
	Qifeng Yu, et al., "Digital pure shear-strain moiré patterns", Applied Optics, vol. 31, No. 11, pages 1813-1817, April 10, 1992.
	Rastogi et al., "Parallel Image Processing Software on Anupam", Computer Division, BARC, Trombay, Bombay-400085, pages 173-178.
	Rodriguez-Vera, "Three-dimensional gauging by electronic moiré contouring", Revista Mexicana de Fisica 40, No. 3, pages 447-458, 1994.

FORM PTO-1449 Page 6 of 6	Atty. Docket No.: H26483 C1 1100.1184102	Serial No.: 10/757,674
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Ridha M. Hamza et al.	
	Filing Date: January 14, 2004	Group Art: unknown

	Rosenblum et al., "Computerized Moire Analysis of Progressive Addition Lenses", Optometry and Vision Science, Vol. 69, No. 12, pages 936-940, 1992.
	Sajan, et al., "TDI imaging and scanning moiré for online defect detection", Optics & Laser Technology, Vol. 29, No. 6, pages 327-331, 1997.
	Setiawan Hadi, "Circular Moire Patterns In 3D Vision Applications", A Thesis Submitted In Partial Fulfillment of the Requirements for the Degree of Master of Computer Science in the Faculty of Computer Science, The University of New Brunswick, May 1996.
	Skifstad, K., et al., "Illumination Independent Change Detection for Real World Image Sequences," Computer Vision, Graphics, and Image Processing, Vol. 46, No. 3, pp. 387-399, June 1989.
	Stauder, J., "Segmentation of Moving Objects in Presence of Moving Shadows: Proc. Int. Workshop on Coding Techniques for Very Low Bit Rate Video, Linkoping, Sweden, July 28-30, 1997, pages 41-44
	Stauder, J., et al., "Detection of Moving Case Shadows for Object Segmentation," IEEE Trans. on Multimedia, Vol. 1, No. 1, pp. 65-76, March 1999.
	Tran, Lee, Zhang, Lo, "Ultrafine Motion Detection of Micromechanical Structures Using Optical Moire Patterns," IEEE Photonics Technology Letter, Vol. 8, No. 8, pages 1058-1060, August 1996.
	Venkatseh, S., "Dynamic Threshold Determination by Local and Global Edge Evaluation," Graphical models and image proccession, Vol. 57, No. 2, pp. 146-160, March 1995.
	Vertregt, et al., "FA 7.4 A 0.4W Mixed-Signal Digital Storage Oscilloscope Processor with Moire Prevention, Embedded 393kb RAM and 50MSample/s 8b ADC", IEEE International Solid-State Circuits Conference, pages 114-115, 1998.
	Voloshin and Tsao, "Effect of Geometry on the Strain in Electronic Packages," Proceedings Microelectronics Education For the Future, Ninth Biennial University/Government/Industry Microelectronics Symposium, pages 246-251, Melbourne, Florida, June 12-14, 1991.
	Weszka, J.S., "SURVEY: A Survey of Threshold Selection Techniques," Computer Graphics and Image Processing 7, Vol. 7, No. 2, pages 259-265, April 1978.
	Xiangdong Liu, "Analysis and Reduction of Moire Patterns in Scanned Halftone Pictures", Dissertation submitted to the faculty of Virginia Polytechnic Institute and State University, Blacksburg, Virginia, May 1996.
	Xiong, W., et al., "Efficient Scene Change Detection and Camera Motion Annotation, for Video Classification," Computer Vision and Image Understanding, Vol. 71, No. 2, pages 166-181, August 1998.

EXAMINER:	DATE CONSIDERED:
-----------	------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.